

34. ELECTRODE OF >FUEL<>CELL< PAJ 00-85-76 01246765 JP NDN-  
190-0020-8251-3  
INVENTOR(S)- MAOKA, TADANORI  
PATENT APPLICATION NUMBER- 63073283 DATE FILED- 1988-03-29  
PUBLICATION NUMBER- 01246765 JP DOCUMENT TYPE- A  
PUBLICATION DATE-  
1989-10-02 INTERNATIONAL PATENT CLASS- H01M00492  
APPLICANT(S)-  
TOSHIBA CORP PUBLICATION COUNTRY- Japan

PURPOSE: To suppress dissolution of a catalyst by electrolyte and provide a cell characteristic with stability for a long time by mixing a small amount of iridium with platinum as active substance of catalyst.

CONSTITUTION: Chloroplatinic acid and iridium trichloride are added to a solution of carbon powder and ion exchange water which are well mixed and agitated. An aqueous solution of sodium phosphorate is added to it followed by ultrasonic agitation, and chlorine ions are removed by suction and filtration, that is followed by heating to 100(degree sign)C to produce a platinum-iridium mixed catalyst. This is dispersed in ion exchange water, and polytetrafluoroethylene dispersed liquid is added to provide a catalytic black mix. An electrode using this catalytic black mix is highly active and hard to dissolve in electrolyte, so that a cell characteristic with stability for a long time is obtained.

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